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# 1 [Demonstrations: BigBatch: a toolbox for monochromatic documents](#)



Rafael Dueire Lins, Bruno Tenório Ávila

 November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

Publisher: ACM Press

 Full text available: [pdf\(419.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

BigBatch is a tool designed to automatically process thousands of monochromatic images of documents generated by production line scanners. It removes noisy borders, checks and corrects orientation, calculates and compensates the skew angle, crops the image standardizing document sizes, and finally compresses it according to user defined file format. BigBatch encompasses the best and recently developed algorithms for such kind of document images. BigBatch may work either in standalone or operator ...

**Keywords:** border removal, document processing, image processing, monochromatic images, orientation, skew detection

# 2 [Modeling high-dimensional index structures using sampling](#)



Christian A. Lang, Ambuj K. Singh

 May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(296.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A large number of index structures for high-dimensional data have been proposed previously. In order to tune and compare such index structures, it is vital to have efficient cost prediction techniques for these structures. Previous techniques either assume uniformity of the data or are not applicable to high-dimensional data. We propose the use of sampling to predict the number of accessed index pages during a query execution. Sampling is independent of the dimensionality and preserves cluste ...

# 3 [Evolutionary features of genomes as disclosed by comparative analysis of complete genome sequences \(abstract only\)](#)



Takashi Gojobori, T. Daniel Andrews, Takeshi Itoh

 April 2000 **Proceedings of the fourth annual international conference on Computational molecular biology**

Publisher: ACM Press

 Full text available: [pdf\(53.45 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Our comparisons of complete genome sequences revealed that the genome structures have been extensively shuffled among eubacteria, particularly when the orders of

orthologous genes were examined. Moreover, archaeobacterial and eukaryotic genome structures were found to be unstable, too, as were the cases of eubacteria. We then turned our attention to operon structures, which were expected to be well conserved during evolution because of their regulatory importance. Surprisingly enough, however, ...

4 MPEG-2 coded- and uncoded-stream synchronization control for real-time multimedia transmission and presentation over B-ISDN ☐

L. Li, N. Georganas

October 1994 **Proceedings of the second ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  [pdf\(893.22 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A real-time multimedia communication system over broadband networks is introduced in the paper. This system consists of distributed database servers which store and retrieve data objects of different types of media and in different coding formats. The multimedia document is transmitted over the network as streams through different connections and presented to the user simultaneously. A set of stream synchronization control schemes is designed to control the multiple data streams (either in ...

5 Localization and timesynch: The flooding time synchronization protocol ☐

Miklós Maróti, Branislav Kusy, Gyula Simon, Ákos Lédeczi

November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

**Publisher:** ACM Press

Full text available:  [pdf\(178.40 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless sensor network applications, similarly to other distributed systems, often require a scalable time synchronization service enabling data consistency and coordination. This paper describes the Flooding Time Synchronization Protocol (FTSP), especially tailored for applications requiring stringent precision on resource limited wireless platforms. The proposed time synchronization protocol uses low communication bandwidth and it is robust against node and link failures. The FTSP achieves ...

**Keywords:** clock drift, clock synchronization, multi-hop, sensor networks, time synchronization



6 (Special session) presentation + poster discussion: university design contest: A reliable low-power fast skew-compensation circuit ☐

Yi-Ming Wang, Jinn-Shyan Wang

January 2004 **Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair ASP-DAC '04 , Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair ASP-DAC '04**

**Publisher:** IEEE Press , IEEE Press

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A reliable low-power fast skew-compensation circuit is proposed. Operating on the clock with a 50% duty cycle, the new design is more reliable compared to conventional SMD-based circuits [1]-[3], which can operate only on the pulsed clock. This new circuit also gets phase locking within two clock cycles. The test circuit works successfully between 600-MHz ~ 800-MHz with a power consumption of 25-μW/MHz ~ 36-μW/MHz. When measured at 616.9-MHz and 791.4-MHz, the static phase is 76.8-ps and 1 ...

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## » Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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## » Key

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

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Consumer Electronics, IEEE Transactions on  
 Volume 47, Issue 3, Aug. 2001 Page(s):273 - 277  
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